

APPARATUS FOR RETRIEVING AND PLACING GOLF BALLS

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TECHNICAL FIELD

This invention relates to a golf ball engagement and support member for attachment to a shaft and employed to retrieve and place golf balls by an individual manipulating the shaft.
10 The invention is suitable for use by physically challenged golfers as well as golfers in general. The invention is also employable to retrieve and place tees and ball markers.

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BACKGROUND OF THE INVENTION

Placing and retrieving golf balls and tees by wheelchair bound or other physically challenged golfers can be a problem. Quite simply, it is difficult, and in some cases impossible, for an individual seated in a wheelchair to set the
20 tee, tee-up the ball on the tee, retrieve the tee after hitting the ball down the fairway and retrieve the golf ball itself from the ground or from a cup.

My U.S. Patent No. 6,348,017, issued February 19, 2002,
discloses apparatus for placing and retrieving golf balls and
tees including a support block forming a recess to receive a tee
top or head. Attached to converging surfaces of the support
5 block are a tee impact plate used to pound a tee into the ground
and a golf ball retainer including two arms having spaced ends
and defining a recess for holding and carrying a golf ball. In
addition, the support block supports a tubular-shaped retainer
having an outwardly flared flange at one end thereof, the pick-up
10 member being used to pick up tees and the flange also serving to
retain the golf ball in position between the arms of the golf
ball retainer.

Other arrangements for placing and retrieving golf
balls, tees and the like are known and the following patents
15 disclose arrangements of this type that are believed to be
representative of the state of the art as well: U.S. Patent No.
2,623,769, issued December, 1952, U.S. Patent No. 4,313,604,
issued February, 1982, U.S. Patent No. 5,102,139, issued April,
1992, U.S. Patent No. 5,540,432, issued July, 1996 and U.S.
20 Patent No. 6,257,635, issued July, 2001.

DISCLOSURE OF INVENTION

The present invention relates to a golf ball engagement
and support member which is of inexpensive, relatively simple

construction and which can readily and efficiently be used by physically challenged golfers and others for golf ball and tee retrieval and placement as well as positioning of a golf ball marker. The golf ball engagement and support member enables
5 these various tasks to be carried out through simple manipulations thereof by a shaft attached thereto.

The golf ball retrieving and support member disclosed and claimed herein is of unitary construction and includes a first portion and a second portion. The first portion has a
10 first portion top surface, a first portion bottom surface and a first portion rear surface. The first portion defines a hole for receiving the end of a shaft.

The second portion projects forwardly from the first portion and includes spaced first and second golf ball support
15 and engagement arms defining a cavity for receiving a golf ball. The cavity is open at the top and bottom thereof whereby the cavity extends through the golf ball retrieving end support member.

The golf ball engagement and support arms have
20 forwardmost disposed distal ends defining a space therebetween communicating with the cavity. The golf ball engagement and support arms also have proximal ends.

The space defined by the forwardmost disposed distal ends is smaller than the diameter of a golf ball. The golf ball

engagement and support arms have curved golf ball engagement and support surfaces disposed about the cavity rearwardly from the distal ends thereof and converging at the first portion.

Other features, advantages and objects of the present invention will become apparent with reference to the following description and accompanying drawings.

BRIEF DESCRIPTION OF DRAWINGS

Fig. 1 is a perspective view of a golf engagement and support member constructed in accordance with the teachings of the present invention attached to an end of a shaft and retaining a golf tee;

Fig. 2 is a view similar to Fig. 1, but showing the golf ball engagement and support member retaining a ball marker;

Fig. 3 is a front, elevational view of the golf ball engagement and support member and showing a shaft attached thereto at one location and depicting in dash lines four alternative shaft locations;

Fig. 4 is an enlarged, cross-sectional view taken along the line 4-4 of Fig. 1;

Fig. 5 is an enlarged, cross-sectional view taken along the line 5-5 of Fig. 2;

Fig. 6 is a cross-sectional view depicting the golf ball engagement and support member in the process of picking up a tee lying on its side;

Fig. 7 is a perspective view illustrating the golf ball engagement and support member being utilized to place a tee in the ground;

Fig. 8 is a perspective view of the golf ball engagement and support member being utilized to place a golf ball on a tee;

Fig. 9 is a perspective view of the golf ball engagement and support member just prior to picking up a golf ball from the ground and prior to placement on the ground of a golf ball marker;

Fig. 10 is a perspective view showing the golf ball engagement and support member in the process of removing the golf ball from the ground and after the device has been utilized to place a ball marker in position; and

Fig. 11 shows the golf ball engagement and support member removing a vertically oriented golf tee from the ground.

BEST MODE FOR CARRYING OUT THE INVENTION

Referring now to the drawings, a golf ball engagement and support member constructed in accordance with the teachings of the present invention is identified by reference number 10. The member 10 is shown attached to a shaft 12 which is used by an individual to maneuver the golf ball engagement and support member.

The member 10 is of integral construction and may be

formed of any suitable material such as metal, plastic or wood.
The member includes a first or rear portion 14 and a second or
frontal portion 16. The first portion 14 has a first portion top
surface 18, a planar first portion bottom surface 20 and a first
5 portion rear surface 22.

The first portion 14 defines a hole 24 for receiving an
end of shaft 12. In the arrangement illustrated, the first
portion top surface is comprised of a plurality of segments 26
angularly disposed relative to one another. Each of these
10 segments has a hole 24 therein enabling a shaft to be installed
on the golf ball engagement and support member in any one of a
plurality of angular orientations. This is shown in Fig. 3
wherein alternative shaft positions are shown by dash lines.

Second portion 16 projects forwardly from the first
15 portion 14 and includes spaced golf ball support and engagement
arms 28, 30 defining a cavity 32 for receiving a golf ball 34.

The cavity 32 is open at the top and bottom thereof
whereby the cavity extends through the golf ball retrieving and
support member.

20 The golf ball engagement and support arms 28, 30 have
forwardmost distal ends 36, 38, respectively. The distal ends
define a space 40 therebetween communicating with cavity 32. The
space 40 is smaller than the diameter of a golf ball.

The golf ball engagement and support arms have curved

golf ball engagement and support surfaces disposed about the cavity rearwardly from the distal ends and converging at the first portion 14. The proximal ends of the arms join at the first portion.

5 The curved golf ball engagement and support surfaces each include an upper surface segment 42 and a side surface segment 44, the upper surface segments and side surface segments adjoining at a curved edge 46 sized to engage the lower half of a golf ball.

10 The golf engagement and support arms gradually decrease in both height and width in the direction of the distal ends thereof. The narrow and thin distal ends 36, 38 are pointed and directed toward one another. The upper surface segments 42 of the arms extend upwardly to and adjoin the first portion top
15 surface 18.

 The member 10 defines an elongated tee retention hole 50 in communication with cavity 32 where the side surface segments converge and extends therefrom into the first portion. The longitudinal he axis of the hole 50 is parallel to the planar
20 first portion bottom surface 20 as well as to the bottoms of arms 28, 30, which are co-planar with the first portion bottom surface.

 The member 10 has a tapered tee guide surface 52 for guiding entry of a horizontally disposed golf tee into the tee

retention hole when the golf ball engagement and support member engages the golf tee 54 as shown in Fig. 6. Fig. 4 shows the horizontally disposed golf tee 54 in position in the tee retention hole.

5 The member 10 also defines a tee head retention recess 60 which communicates with the tee retention hole 50. The tee head retention recess is for releasably holding a tee in a vertical orientation when placing the tee into the ground (see Fig. 7) or extracting the golf tee from the ground (see Fig. 11).

10 A slot 62 communicates with the tee head retention recess for releasably holding a golf ball marker and permitting it to be positioned in place on the ground. Fig. 9 shows a marker 64 prior to its placement on the ground by the member 10 and Fig. 10 shows the marker on the ground. This is accomplished
15 with simple manipulation of the member by the shaft.

Fig. 8 shows use of the member 10 to place a golf ball on the tee. Fig. 9 illustrates the member being placed in position to capture the golf ball. Fig. 10 shows the golf ball captured by the member and being removed from the ground. The
20 configuration of the arms allows them to be easily positioned under the ball and a slight tilting backward of the member fully seats the golf ball in captured position in the cavity 32 and between the arms.